KANSAS CITYS

5/6/2006

EXHIBIT #5: LEVEE UNITS EXISTING CONDITION OVERALL PERFORMANCE

UNIT	Existing Top Of Levee (TOL) Elev (ft msl; adjusted to index point)*	GEOTECHNICAL/STRUCTURAL RISK					OVERALL EXPECTED ANNUAL EXCEEDANCE PROBABILITY	OVERALL UNIT RELIABILITY AGAINST THE 1% EVENT (Conditional Non-Exceedance Probability)		CONSEQUENCES OF FAILURE (costs, impacts)	LIKELY ACTIONS IN THE EVENT OF FAILURE
		Existing Condition Combined Probability of Failure at TOL***	PFP (85% prob of failure) (Elev, ft msl)	PFP -- feet below TOL	PNP (15% prob of failure) (Elev, ft msl)	PNP -- feet below TOL		Existing Condition	Future Without-Project Condition		
ARGENTINE	776.0	0.998	772.75	3.3	766.74	9.3	0.013	0.49	0.49	Potential loss of 1 or more pump plants and damage to levee @ several $million. Potential loss of life; health and safety hazards; environmental issues; $1.7 billion primary physical flood damages in Arg (0.2% event); $272 million other cost of flooding in Arg(0.2% event); closure of major businesses and industries including some of national significance; temporary and potentially permanent job losses; shutdown of nation's 2nd busiest rail yard, rail routes, intermodal facilities, and interstate; shutdown of major public and critical facilities.	Major flood fight; evacuation of 3,500 residents and 10,700 employees. Sponsors would request assistance from USACE under PL 84-99. Assuming sponsors have met all maintenance responsibilities, a permanent repair would be cost shared 75% Federal and 25% non-Federal. A temporary fix would be 100% Federal.
FAIRFAX-JERSEY CR	760.5	0.988	759.82	0.7	751.71	8.8	0.007	0.82**	0.82**	Potential 60-80 foot deep scour; loss of pump plants and relief wells, damage to levee and floodwall could total a few million to several million dollars. Potential loss of life; health and safety hazards; environmental issues; $2.3 billion primary physical flood damage (0.2% event); $320 million other cost of flooding (0.2% event); closure of major businesses and industries including some of national significance; temporary and potentially permanent job losses; shutdown of major rail yard, rail routes, and interstate shutdown; shutdown of major public and critical facilities.	Major flood fight; evacuation of 11,200 employees. Sponsors would request assistance from USACE under PL 84-99. Assuming sponsors have met all maintenance responsibilities, a permanent repair would be cost shared 75% Federal and 25% non-Federal. A temporary fix would be 100% Federal.
NORTH KANSAS CITY UNIT	755.5	0.633	755.50	0.0	750.05	5.5	0.005	0.85	0.85	Potential loss of life; health and safety hazards; environmental issues; $1.9 billion primary physical flood damage (0.2% event); $325 million other cost of flooding (0.2% event); closure of major businesses and industries including some of national significance; temporary and potentially permanent job losses; shutdown of major rail yard, rail routes, and interstate shutdown; shutdown of major public and critical facilities.	Major flood fight; evacuation of 4,900 residents and 26,700 employees. Sponsors would request assistance from USACE under PL 84-99. Assuming sponsors have met all maintenance responsibilities, a permanent repair would be cost shared 75% Federal and 25% non-Federal. A temporary fix would be 100% Federal.
EAST BOTTOMS UNIT	746.3	0.240	746.30	0.0	744.20	2.1	0.002	0.96	0.96	Potential loss of life; health and safety hazards; environmental issues; $1.87 billion primary physical flood damage (0.2% event); $230 million other cost of flooding (0.2% event); closure of major businesses and industries including some of national significance; temporary and potentially permanent job losses; shutdown of major rail yard, rail routes, and interstate shutdown; shutdown of major public and critical facilities.	Major flood fight; evacuation of 3,300 residents and 20,150 employees. Sponsors would request assistance from USACE under PL 84-99. Assuming sponsors have met all maintenance responsibilities, a permanent repair would be cost shared 75% Federal and 25% non-Federal. A temporary fix would be 100% Federal.

NOTES:

* TOL elevation represents the low spot on the levee translated to the index point of the Unit.

**Reliability shown for Fairfax-Jersey Creek Unit assumes a successful flood fight at lower tieback and JC outlet

*** Combined probability of failure curve was computed using formula in ETL 1110-2-556; formula: Pr(f)=1-(1-pA)(1-pB)(1-pC)(1-pD)